

Appl. No. 10/614,072
Amdt. Dated December 23, 2005
Reply to Office Action of October 3, 2005

Attorney Docket No. 89188.0046
Customer No. 26021

Pending Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Amended) A composition comprising an isolated Competence Stimulating Peptide (CSP) and sucrose, wherein the CSP comprises SEQ ID NO:1, wherein the composition is capable of preventing attachment of *S. mutans* to teeth.
2. (Original) The composition according to claim 1, further comprising at least one substance selected from the group consisting of an orally acceptable carrier, an anti-caries agent, and mixtures thereof.
3. (Original) The composition according to claim 1, further comprising an orally acceptable carrier and an anti-caries agent.
4. (Original) The composition according to claim 1, wherein the CSP in the composition is present in an amount from about 0.05% to about 30% w/w.
5. (Original) The composition according to claim 1, wherein the composition is in a form selected from the group consisting of a mouthwash solution, an abrasive dentifrice gel, a chewing gum, a nonabrasive dentifrice gel, a nonabrasive gel composition, and a soft drink.
6. (Previously Amended) The composition according to claim 2, wherein the anti-caries agent is selected from the group consisting of water insoluble noncationic antimicrobial agents, non-steroidal anti-inflammatory drugs, fluoride reagents, histidine-rich polypeptides, casein, urea, calcium lactate, calcium glycerophosphate,

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non-immunogenic amino acid segments of proline-rich proteins, monoclonal antibodies against *S. mutans*.

7. (Withdrawn) A method of treatment or prophylaxis of a condition associated with the attachment of *S. mutans* to teeth of a subject, comprising the step of administering to the subject a composition containing CSP in an amount effective to reduce the attachment of *S. mutans* to teeth.

8. (Withdrawn) The method of claim 7, wherein the composition further comprises at least one substance selected from a group consisting of sucrose, an orally acceptable carrier, an anti-caries agent, and mixtures thereof.

9. (Withdrawn) The method of claim 7, wherein the composition further comprises sucrose.

10. (Withdrawn) The method of claim 7, wherein the composition further comprises sucrose, an orally acceptable carrier, and an anti-caries agent.

11. (Withdrawn) The method of claim 7, wherein the CSP in the composition is present in an amount from about 0.05% to about 30% w/w.

12. (Withdrawn) The method of claim 7, wherein the condition is selected from the group consisting of dental caries or endocarditis.

13. (Withdrawn) The method of claim 8, wherein the anti-caries agent is selected from the group consisting of water insoluble noncationic antimicrobial agents, non-steroidal anti-inflammatory drugs, fluoride reagents, histidine-rich polypeptides, casein, urea, calcium lactate, calcium glycerophosphate, non-immunogenic amino acid segments of proline-rich proteins, monoclonal antibodies of *S. mutans*.

14. (Previously Amended) A medicament for the treatment or prophylaxis of a condition associated with the attachment of *S. mutans* to teeth, comprising an isolated CSP in an amount effective to reduce the attachment of *S. mutans* to teeth, wherein the CSP comprises SEQ ID NO:1.

15. (Original) The medicament of claim 14, wherein the medicament further comprises at least one substance selected from a group consisting of sucrose, an orally acceptable carrier, an anti-caries agent, and mixtures thereof.

16. (Original) The medicament of claim 14, wherein the medicament further comprises sucrose.

17. (Original) The medicament of claim 14, wherein the medicament further comprises sucrose, an orally acceptable carrier, and an anti-caries agent.

18. (Original) The medicament of claim 14, wherein the CSP is present in an amount between about 0.05% to about 30% w/w.

19. (Original) The medicament of claim 14, wherein the condition is selected from the group consisting of dental caries or endocarditis.

20. (Previously Amended) The medicament of claim 15, wherein the anti-caries agent is selected from the group consisting of water insoluble noncationic antimicrobial agents, non-steroidal anti-inflammatory drugs, fluoride reagents, histidine-rich polypeptides, casein, urea, calcium lactate, calcium glycerophosphate, non-immunogenic amino acid segments of proline-rich proteins, monoclonal antibodies against *S. mutans*.

21. (Canceled)

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Attorney Docket No. 89188.0046
Customer No. 26021

22. (Canceled)

23. (Previously Presented) A composition comprising an isolated Competence Stimulating Peptide (CSP) and sucrose, wherein the CSP consists of SEQ ID NO:1.

24. (Previously Presented) A medicament for the treatment or prophylaxis of a condition associated with the attachment of *S. mutans* to teeth, comprising an isolated CSP in an amount effective to reduce the attachment of *S. mutans* to teeth, wherein the CSP consists of SEQ ID NO:1.

25. (Previously Presented) The composition according to claim 1, wherein the composition stimulates attachment of non-pathogenic bacteria to the teeth.